

U.S. APPLICATION NO. 10/787,415
DECLARATION UNDER 37 C.F.R. §1.132

PATENT APPLICATION



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Toru Yano *et al.*

Appln. No.: 10/787,415

Examiner: Toscano, Alicia

Filed: February 27, 2004

Group Art Unit: 1712

For: BIODEGRADABLE RESIN COMPOSITION AND BIODEGRADABLE
RESIN MOLDED ARTICLE

DECLARATION UNDER 37 C.F.R. §1.132

Honorable Commissioner for Patents
Alexandria, VA 22313-1450

Sir:

I, Toru Yano, do declare and state as follows:

I graduated from the graduated school of the Okayama University of Science, the doctoral course of the Department of Material Science, and received Ph.D. in Science from the Okayama University of Science in March of 1986. I have been employed by NISHIKAWA RUBBER CO., LTD., R & D Dept., Automotive Division since January of 1992. I have been engaged in research in polymerization of biodegradable resins since October of 1994. I am one of the co-inventors of the invention described and claimed in the application and have a full knowledge of the present invention and prior arts.

EXPERIMENTATION

Experimental Examples I, II, and III

Preparations and evaluations of Experimental Examples I, II, and III were carried out in the same manner as the preparation and the evaluation of Example 6 in the present specification, except that: a L-lactic acid-unit containing resin having an optical purity of 98% (i.e., Resin A in the following Table) was used as the Resin (1); and three types of D-lactic acid-containing resins having optical purities of 99%, 90%, and 85%,

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respectively, (i.e., Resins B, C, and D in the following Table) were used as the Resin (2). In the following Table, amounts of the Resins A to D are expressed as part(s) by weight. The resulting data are shown in the following Table.

Table

No.	Optical Purity (%)	Experimental Example I	Experimental Example II	Experimental Example III
Resin A	98	100	100	100
Resin B	99	5	-	-
Resin C	90	-	5	-
Resin D	85	-	-	5
Mold temperature (°C)		110	110	110
Cooling time (sec)		2	2	2
Maximum tensile strength JIS K7113 (kgf/cm ²)		540	570	590
Elongation at break JIS K7113 (%)		4.0	4.2	4.2
Heat deformation temperature JIS K7191 (°C)		127	124	68

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date : November 17, 2006 Name : Toru Yano
Toru Yano